WEST Search History

DATE: Thursday, February 05, 2004

Hide?	Set Name	Query	Hit Count
		DB=PGPB,USPT; PLUR=YES; OP=ADJ	
☐	L15	L14 and 18	125
☐	L14	19971119	278
☐	L13	19981119	354
☐	L12	L11 and (glycosyltransferase or Transglycosylase)	1291
☐	L11	L10 and (Fusion or chimer$7 or fus$7 or hybrid$7)	66545
☐	L10	L9 and (Prepar$7 or mak$7 or synth$7 or manufact$7 or produ$7)	185859
☐	L9	saccharide or monosaccharide or Oligosaccharide or carbohydrate or polysaccharide or sugar	187984
☐	L8	L7 or 16 or 15 or 14 or 13 or 12 or 11	25778
☐	L7	(435/320.1)!.ccls.	22377
☐	L6	(435/254.2)!.ccls.	1049
☐	L5	(435/254.11)!.ccls.	1340
☐	L4	(435/252.33)!.ccls.	2571
☐	L3	(435/252.3)!.ccls.	7848
☐	L2	(435/193)!.ccls.	1455
☐	L1	(435/101)!.ccls.	854

END OF SEARCH HISTORY

NiceZyme View of ENZYME: EC 2.4.1.16

Official Name	
Chitin synthase.	
Alternative Name(s)	
Chitin-UDP acetyl-glucosaminyl transferase.	
Reaction catalysed	

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    UDP-N-acetyl-D-glucosamine
 +  {(1,4)-(N-acetyl-beta-D-glucosaminyl)}(N)
<=>
    UDP
 +  {(1,4)-(N-acetyl-beta-D-glucosaminyl)}(N+1)
```
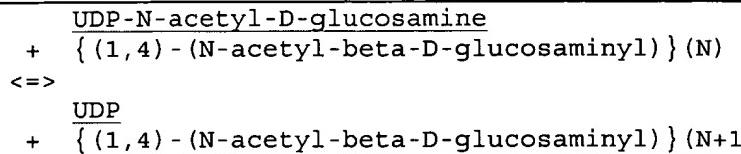
Comments

- Converts UDP-N-acetyl-D-glucosamine into chitin and UDP.

Cross-references

BRENDA	2.4.1.16
EMP/PUMA	2.4.1.16
WIT	2.4.1.16
Kyoto University LIGAND chemical database	2.4.1.16
IUBMB Enzyme Nomenclature	2.4.1.16
IntEnz	2.4.1.16
MEDLINE	Find literature relating to 2.4.1.16
Swiss-Prot	P30576, CHS1_AJECA; P30579, CHS1_AJEDE; P30581, CHS1_ASPNG; P49603, CHS1_BOTCI; P23316, CHS1_CANAL; O13356, CHS1_CRYNE; P30583, CHS1_EMENI; P30600, CHS1_EXODE; P30585, CHS1_EXOJE; P30588, CHS1_NEUCR; P30590, CHS1_PHAEX; P87073, CHS1_PHYBL; P30592, CHS1_RHIAT; P30594, CHS1_RHIOL; Q12632, CHS1_RHIRA; P30596, CHS1_SCHCO; P30597, CHS1_SCHPO; P55003, CHS1_TUBUN; P30598, CHS1_USTMA; P30603, CHS1_XYLBA; P08004, CHS1_YEAST; P30577, CHS2_AJECA; P30580, CHS2_AJEDE; P30582, CHS2_ASPNG; P30572, CHS2_CANAL; P30601, CHS2_EXODE; P30586, CHS2_EXOJE; P30589, CHS2_NEUCR; Q92444, CHS2_PARBR; P30591, CHS2_PHAEX; P30593, CHS2_RHIAT; P30595, CHS2_RHIOL; P30599, CHS2_USTMA; P30604, CHS2_XYLBA; P14180, CHS2_YEAST; P30578, CHS3_AJECA; P30573, CHS3_CANAL; P30602, CHS3_EXODE; P30587, CHS3_EXOJE; P29070, CHS3_NEUCR; P29465, CHS3_YEAST; O13353, CHS4_MAGGR; Q01285, CHS4_NEUCR; O13394, CHS5_USTMA; O13395, CHS6_USTMA; Q12564, CHSA_AMPQU; P30584, CHSA_EMENI; Q00757, CHSB_EMENI; Q92197, CHSC_ASPFU; P78746, CHSD_ASPFU; P78611, CHSD_EMENI; P54267, CHSG_ASPFU; Q99126, CHSX_USTMA; Q99127, CHSY_USTMA; P48017, CHS_SAPMO ;

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